

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051822\  
 Data File : VD073092.D  
 Acq On : 18 May 2022 11:56  
 Operator : VA/SY  
 Sample : VD0518SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0518SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/19/2022  
 Supervised By : Mahesh Dadoda 05/24/2022

Quant Time: May 18 16:28:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 04:58:34 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 282619              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 478618              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 475228              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 237114              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 179688              | 50.840  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.680% |         |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 172441              | 51.315  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.640% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 632841              | 51.910  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 103.820% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 230162              | 52.126  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 104.260% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 76105               | 21.535  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 76078               | 20.882  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 70699               | 21.100  | ug/l   | 98       |
| 5) Bromomethane              | 2.750          | 94   | 50596               | 21.260  | ug/l   | 95       |
| 6) Chloroethane              | 2.909          | 64   | 42226               | 20.237  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 126388              | 20.612  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.703          | 74   | 33217               | 19.798  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 74885               | 20.623  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.297          | 142  | 73663               | 20.220  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.209          | 59   | 46820               | 85.644  | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 68584               | 20.887  | ug/l   | 91       |
| 13) Acrolein                 | 3.921          | 56   | 31617               | 102.865 | ug/l   | 97       |
| 14) Allyl chloride           | 4.715          | 41   | 100679              | 19.353  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.415          | 53   | 79681               | 99.088  | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 62017               | 96.963  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 224663              | 20.429  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.726          | 43   | 38371               | 20.747  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 154015              | 20.057  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.962          | 84   | 97902               | 21.090  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 78512               | 20.101  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.362          | 45   | 232757              | 20.845  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.303          | 43   | 615399              | 102.019 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 144752              | 20.837  | ug/l   | 100      |
| 25) 2-Butanone               | 7.209          | 43   | 94860               | 97.944  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 119056              | 20.243  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 88280               | 20.496  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.538          | 49   | 45522               | 19.130  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 60955               | 97.808  | ug/l   | 94       |
| 30) Chloroform               | 7.703          | 83   | 153352              | 20.632  | ug/l   | 97       |
| 31) Cyclohexane              | 7.973          | 56   | 129248              | 20.302  | ug/l # | 96       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 127943              | 20.092  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 110727              | 20.222  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.285          | 43   | 46249               | 20.112  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 113224              | 20.212  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.350          | 83   | 127662              | 19.995  | ug/l   | 97       |
| 40) Benzene                  | 8.344          | 78   | 327668              | 20.929  | ug/l   | 98       |

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 Sample : VD0518SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0518SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/19/2022  
 Supervised By : Mahesh Dadoda 05/24/2022

Quant Time: May 18 16:28:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 04:58:34 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 21849    | 16.850  | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 94504    | 20.738  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 83875    | 19.618  | ug/l # | 94       |
| 44) Trichloroethene           | 9.108  | 130  | 85060    | 20.086  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 84332    | 20.742  | ug/l   | 93       |
| 46) Dibromomethane            | 9.467  | 93   | 46270    | 20.581  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.650  | 83   | 116447   | 20.393  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.450  | 41   | 42255    | 19.925  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 9124     | 389.808 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 222023   | 99.512  | ug/l   | 95       |
| 52) Toluene                   | 10.397 | 92   | 204689   | 20.593  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 104549   | 20.076  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 125097   | 20.374  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 62824    | 20.473  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.650 | 69   | 67671    | 19.499  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 106828   | 20.460  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 129044   | 86.295  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.973 | 43   | 148535   | 100.779 | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.132 | 129  | 81385    | 21.347  | ug/l   | 94       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 61233    | 20.737  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.867 | 164  | 69669    | 20.010  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.661 | 112  | 215490   | 19.998  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 83262    | 20.228  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 375558   | 20.017  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.844 | 106  | 303984   | 41.805  | ug/l   | 97       |
| 69) o-Xylene                  | 12.167 | 106  | 138863   | 20.708  | ug/l   | 95       |
| 70) Styrene                   | 12.185 | 104  | 243835   | 20.819  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 42709    | 19.707  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.467 | 105  | 363457   | 20.222  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 80667    | 19.205  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 70762    | 19.971  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 52380m   | 19.542  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 87650    | 20.439  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.808 | 91   | 464384   | 20.575  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 265799   | 20.215  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 312364   | 20.401  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 22388    | 20.027  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 284468   | 20.442  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 263835   | 20.343  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 315929   | 20.739  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.391 | 105  | 402531   | 20.447  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 330022   | 20.610  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 178933   | 20.301  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 177567   | 20.387  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 312732   | 20.082  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 65427    | 19.664  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 157404   | 20.590  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 10548    | 19.152  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 86773    | 19.894  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 50888    | 20.902  | ug/l   | 95       |
| 95) Naphthalene               | 15.385 | 128  | 148857   | 19.001  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 78535    | 20.280  | ug/l   | 98       |

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Sample : VD0518SBSD01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0518SBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/19/2022  
Supervised By :Mahesh Dadoda 05/24/2022

Quant Time: May 18 16:28:56 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 18 04:58:34 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

